

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 11 August 2000 (11.08.00)	
International application No. PCT/GB99/04318	Applicant's or agent's file reference MNM/P21301WO
International filing date (day/month/year) 17 December 1999 (17.12.99)	Priority date (day/month/year) 17 December 1998 (17.12.98)
Applicant DOLL-STEINBERG, Daniel	

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

11 July 2000 (11.07.00)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was



was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

MAGGS, Michael, Norman
Kilburn & Strode
20 Red Lion Street
London WC1R 4PJ
ROYAUME-UNI



Date of mailing (day/month/year) 26 July 2000 (26.07.00)	
Applicant's or agent's file reference MNM/P21301WO	IMPORTANT NOTIFICATION
International application No. PCT/GB99/04318	International filing date (day/month/year) 17 December 1999 (17.12.99)

1. The following indications appeared on record concerning: <input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative			
Name and Address TRIBEKA LIMITED 5 Bendall Mews Marylebone London NW1 6SN United Kingdom	State of Nationality GB	State of Residence GB	Telephone No. Facsimile No. Teleprinter No.
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence			
Name and Address TRIBEKA LIMITED 126/134 Baker Street London W1M 1FH United Kingdom	State of Nationality GB	State of Residence GB	Telephone No. Facsimile No. Teleprinter No.
3. Further observations, if necessary: 			
4. A copy of this notification has been sent to: <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the International Searching Authority <input type="checkbox"/> the International Preliminary Examining Authority </div> <div> <input checked="" type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the elected Offices concerned <input type="checkbox"/> other: </div> </div>			

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Ingrid Aulich Telephone No.: (41-22) 338.83.38
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MNM/P21301WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/GB99/04318	International filing date (day/month/year) 17/12/1999	Priority date (day/month/year) 17/12/1998
International Patent Classification (IPC) or national classification and IPC G06F17/60		
Applicant TRIBEKA LIMITED et al.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 11 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input checked="" type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input checked="" type="checkbox"/> Certain observations on the international application 		
Date of submission of the demand 11/07/2000	Date of completion of this report 03.04.2001	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized officer Pedersen, N Telephone No. +31 70 340 4432 	

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/GB99/04318

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-23 as originally filed

Claims, No.:

1-49 as originally filed

Drawings, sheets:

1 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/GB99/04318

Industrial applicability (IA) Yes: Claims 1-31
 No: Claims

2. Citations and explanations
 see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
see separate sheet

Re Item IV

The International Searching Authority considers that the present application contains four inventions.

1. Claims: 1-31

Method and apparatus for distributing digitised information, wherein a release code is stored on a media along with the digitised information.

2. Claims: 32-40

Method and apparatus for distributing digitised information, wherein the digitised information is being stored partly is stored partly at a local site and partly at a remote site.

3. Claims: 41-44

Method of distributing digitised information, wherein the digitised information is stored on the final storage segments of the media.

4. Claims: 47-49

Method of processing returns of physical media.

Independent claims 45 and 46 are disregarded as they do not meet the requirements of Rule 6(2) PCT since they rely on references to the description or the drawings.

The observation, that the present application contains four inventions, is based on the following reasons:

The United States patent US5784460 has been identified as the prior art.

Independent claims 1 and 26 refer to a method and apparatus for distribution of digitised information which differ from the document US5784460 (figure 3, steps 82,104,102 and 136) in that the release code is stored on the media.

The objective problem of the first claimed invention is to improve the availability

of the release code.

The special technical feature as defined in Rule 13.2 PCT, defined in claims 1-31 as far as they relate to this subject, with respect to the prior art (see US5784460) is: the storage of the release code on the media.

Independent claims 32 and 40 refer to a method and apparatus for distribution of digitised information which differ from the document US5784460 (figure 3, steps 82, 104, 102 and 136) in that the digitised information is stored partly at a local site and partly at a remote site.

The objective problem of the second claimed invention is to ensure that products cannot be generated using only locally stored information.

The special technical feature as defined in Rule 13.2 PCT, defined in claims 32-40 as far as they relate to this subject, with respect to the prior art (see US5784460) is: that the digitised information is stored partly at a local site and partly at a remote site.

Independent claim 41 refers to a method for distribution of digitised information which differ from the document US5784460 (figure 3, step 82) in that the information is stored on the final storage segments of the media.

The objective problem of the third claimed invention is to prevent the information being copied onto standard media in the original configuration.

The special technical feature as defined in Rule 13.2 PCT, defined in claims 41-44 as far as they relate to this subject, with respect to the prior art (see US5784460) is: that the information is stored on the final storage segments of the media.

Independent claim 47 refers to a method of processing returns of physical media from customers. The prior art document, US5784460, does not relate to such a method.

The objective problem of the fourth claimed invention is to provide efficient processing of returned media.

The special technical features as defined in Rule 13.2 PCT, defined in claims 47-49 as far as they relate to this subject, with respect to the prior art (see US5784460) are: all the technical features of claim 47.

The identified special technical features are neither the same nor corresponding in the sense of Rule 13(2) PCT, since they are functionally unrelated and they solve different problems, which can be tackled independently.

In conclusion, therefore, the four groups of claims are not linked by common or corresponding special technical features and define four different inventions not linked by a single inventive concept. Hence, the application does not meet the requirements of Unity of Invention as defined in Rule 13(1)&(2) PCT.

The search has been performed according to Art. 17(3)(a) PCT, on those parts of the international application which relate to the invention first mentioned in the claims (i.e. claims 1-31).

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO-A-9816033

D2: EP-A-0561685

D3: US-A-5553143

D4: WO-A-9802820

D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to D1):

A method of distribution of digitized information comprising:

- (a) receiving at a local site a request from a customer for electronically readable media containing customer selected information (figure 3, step 82);
- (b) either before or after receipt of the request, obtaining a unique release code electronically from a remote site (figure 3, step 104);
- (c) associating the release code with the customer (figure 3, step 102); and
- (d) at the local site, storing on the media the customer selected information for supply to the customer (figure 3, step 136).

Thus, the subject matter of claim 1 differs from document D1 in that the release code is stored on the medium. This is merely a straightforward possibility which the skilled person would select, in accordance with circumstances and without the exercise of inventive skill, in order to solve the problem posed. Consequently, claim 1 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claims 2, 3, 6 and 7 relate to printing of either a licence number included in the release code or a name on either the packaging or on the surface of the medium. Printing on the packaging is known from D1 (column 7, line 35- 42) and the remaining features of claims 2, 3, 6 and 7 are merely straightforward possibilities which the skilled person would select, in accordance with circumstances and without the exercise of inventive skill, in order to solve the problem posed. Consequently, claims 2, 3, 6 and 7 cannot be considered as involving an inventive step (Article 33(3) PCT).

The additional features of claims 4-5, 8-9 and 10-12 (storing the release code or information representative of the customer electronically on the medium, producing certificates of authenticity, printing or storing a user defined personalisation on the medium) are not considered as inclusive of an inventive contribution. These features are merely straightforward possibilities which the skilled person would select, in accordance with circumstances and without the exercise of inventive skill, in order to solve the problem posed. Therefore, claims 4-5, 8-9 and 10-12 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claim 13 are known from D1 (figure 3, step 104). Consequently, claim 13 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claims 14-22 (requesting and sending (optionally in advance) a plurality of release codes, keeping and forwarding a cumulative record, receiving a request via a communications medium or from a customer physically present, authorising a student sale or an upgrade sale, precoding the medium with a code unique to the fulfilment unit) are not considered to offer an inventive contribution, such features being obvious to a person skilled in the art. Consequently, claims 14-22 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claim 23 are known from D1 (figure 3 and column 6, line 8-12). Consequently, claim 23 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claims 24 and 25 (that the user defined selection of products comprises a gift list or a list compiled by an educational establishment) are, notwithstanding the lack of clarity mentioned below, not considered to offer an inventive contribution, since these features are obvious to a person skilled in the art. Consequently, claims 24 and 25 cannot be considered as involving an inventive step (Article 33(3) PCT).

The document D1 is also regarded as being the closest prior art to the subject-matter of claim 26, and discloses (the references in parentheses applying to this document):

Apparatus for the distribution of digitized information comprising:

- (a) a local mass storage for storing the digitized information (column 4, line 9-12);
- (b) a point of sale unit arranged to receive a request from a customer electronically readable media containing customer selected information (figure 3, step 82);

- (c) a remote licencing control centre arranged to issue a unique release code electronically (figure 3, step 104); and
- (d) a local media generator arranged to store on the media the customer selected information for supply to the customer (figure 3, step 136);

Thus, the subject matter of claim 26 differs from document D1 in that the release code is stored on the medium. Therefore, the objection against claim 1 applies to claim 26 accordingly.

The supplementary features of claims 27 and 31 are a packaging generator and a media generator arranged to print a licence number or a name on the packaging or on the medium. These features are either known from D1 (column 7, line 35-42) or merely straightforward possibilities which the skilled person would select, in accordance with circumstances and without the exercise of inventive skill, in order to solve the problem posed. Therefore, claims 27 and 31 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claim 28 and 29 (producing certificates of authenticity optionally including a name or a licence number, printing or storing a user defined personalisation on the medium) are not considered to offer an inventive contribution, such features being obvious to a person skilled in the art. Consequently, claims 28 and 29 cannot be considered as involving an inventive step (Article 33(3) PCT).

The supplementary features of claim 30 are either known from D1 (claim 8) or merely straightforward possibilities which the skilled person would select, in accordance with circumstances and without the exercise of inventive skill, in order to solve the problem posed. Therefore, claim 30 cannot be considered as involving an inventive step (Article 33(3) PCT).

Re Item VIII

Certain observations on the international application

Dependent claims 24 and 25 refer to "A method as claimed in claim 22, in which

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB99/04318

the user-defined selection of products ...". The "user-defined selection of products" is not referred to in claim 22, but for the first time in claim 23. Claims 24 and 25 are therefore not clear as required by Article 6 PCT.

Independent claims 45 and 46 do not meet the requirements of Rule 6(2) PCT since they rely on references to the description or the drawings.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : G06F 17/60		A2	(11) International Publication Number: WO 00/36536 (43) International Publication Date: 22 June 2000 (22.06.00)
(21) International Application Number: PCT/GB99/04318 (22) International Filing Date: 17 December 1999 (17.12.99) (30) Priority Data: 9827831.0 17 December 1998 (17.12.98) GB (71) Applicant (for all designated States except US): TRIBEKA LIMITED [GB/GB]; 5 Bendall Mews, Marylebone, London NW1 6SN (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): DOLL-STEINBERG, Daniel [GB/GB]; 5 Bendall Mews, Marylebone, London NW1 6SN (GB). (74) Agents: MAGGS, Michael, Norman et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).			(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: METHOD AND APPARATUS FOR THE DISTRIBUTION OF DIGITISED INFORMATION ON DEMAND			
(57) Abstract <p>In a method and apparatus for the electronic distribution of digitised information on demand, remote and/or local mass data stores are used to store digitised information for use in the generation of products such as software media. Available products and related information can be searched, browsed and requested at a local fulfilment unit; or requests can be made remotely. The products generated and associated packaging, certificates of authenticity, instruction manuals and licence numbers may optionally include customer specific information, and customer given personalisation. Additional security features include storing essential parts of the digitised information remotely so that products can not be generated using only locally stored information; and recording the digitised information on the at least final segments of longer than standard format CDs preventing complete copies onto CDs of standard format.</p>			

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**Method and apparatus for the distribution of digitised
information on demand**

5 This invention relates to the distribution of digitised information on demand. In particular, although not exclusively, the invention relates to the distribution of software media.

 Conventional information distribution means involve the manufacture, licensing and packaging of a specific quantity of, for instance, software by or on
10 behalf of a publisher. This software is usually then stored by a distributor before being transferred to a reseller. The software is displayed at the reseller's premises for selection and purchase by the customer. The reseller is typically responsible for stock management including returning unsold stock to the publisher via the distributor.

15 Several disadvantages are associated with such a conventional distribution means. The specific quantity of, for example, the software cannot be directly related to assured purchases by the customer leading to potential under or over stocking at the resellers. The distribution of the software to the distributor, storage by the distributor, and distribution to the reseller can involve
20 considerable expense, and the methods of distribution used can be damaging to the environment. Further costs are related to the need for storage space at the reseller's premises, and costs associated with stock management time. Owing to the physical limits of storage space at the reseller's premises, the customer may not have access to a full range of titles. If the reseller runs out of titles or
25 the customer demands something not in stock, the many stages in the distribution process can mean it takes considerable time before new stock can be produced and transferred to the customer.

Alternative methods have developed for ordering software, including the use of mail order. However, delivery uncertainties can make this a less attractive option than ordering at a reseller's premises. More recent advances include ordering by electronic mail and/or downloading software to a local hard disc using a data modem or terminal adapter. Although offering considerable advantages of speed, these methods can be unreliable owing to power failures or loss of telephone connections. The cost of telephone calls when considerable time is needed to download large amounts of data, together with the need for storage space and backup mechanisms, can contribute to making these alternatives less reliable and not necessarily as cost efficient as conventional methods. In addition, the lack of a physical end product can make this method undesirable for many end users.

Such a lack of physical end product is a problem associated with both conventional distribution means and more recently developed electronic methods. Particularly relevant to electronic methods is the additional problem of lack of security measures. Digital information travelling over, say, the Internet may be intercepted and used without paying any costs to the reseller or publisher.

W0-A-98/02820, in the name of Bitsource Inc., discloses an alternative, but rather simplistic, method of remote information distribution.

The aim of the present invention is to provide a method and apparatus for the electronic distribution of digitised information, such as software media, that at least alleviates some of the disadvantages identified with current, or prior art distribution means.

According to a first aspect of the present invention there is provided a method of distributing digitized information comprising:

(a) receiving at a local site a request from a customer for electronically-

readable media containing customer-selected information;

(b) either before or after receipt of the request, obtaining a unique release code electronically from a remote site;

(c) associating the release code with the customer; and

5 (d) at the local site, storing on the media the customer-selected information, along with the release code, for supply to the customer.

The release code may comprise a licence number.

According to a further aspect, there is provided apparatus for the distribution of digitized information comprising:

10 (a) a local mass store for storing the digitized information;

(b) a point of sale unit arranged to receive a request from a customer for electronically-readable media containing customer-selected information;

15 (c) a remote licensing control centre arranged to issue a unique release code electronically; and

(d) a local media generator arranged to store on the media the customer-selected information, along with the issued release code, for supply to the customer.

20 The present invention may provide the possibility of personalising the software media with the optional inclusion of customer-given personalisation. The present invention may provide an additional security protection in which the digitised information relevant to a specific software media is partially stored in two locations; and/or the software media comprises of a media such as a CD of longer than standard format upon which digitised information is stored on at
25 least the final segments.

There is also provided an apparatus for the electronic distribution of digitised information comprising a mass data store for storing the digitised

information; a point of sale terminal arranged to receive a software media request; a software media generator arranged to generate the software media using the digitised information; a certification printing device arranged to produce a certificate of authenticity; and an identification, authorisation and
5 licensing control centre (IALCC) arranged to allocate a release code to the software media.

The present invention offers many advantages over prior art distribution means, including the fact that software media may be produced only in response to a request thereby eliminating lost sales, or unwanted stocks and returns. The
10 present invention also reduces the need for distributor storage space, and shelf space at the reseller's premises. It is possible to keep a wider range of stock available without restraints on shelf space. In addition, the distribution means is less harmful to the environment than conventional distribution means.

Preferably, there is also included a packaging generator arranged to
15 produce elements of packaging for the software media, and an instruction manual generator arranged to produce an instruction manual for the software media.

Preferably the software media comprises a product related to the digitised information such as an item of software, a demonstration, or a
20 periodical publication.

Preferably information comprising the software media request is included in the software media, and/or the licence number, and/or on one or more of the software media, the certification of authenticity, the packaging and the instruction manual. The possibility of incorporating such information
25 which may include specific customer information such as a customer name is a considerable advantage over the prior art and functions as an additional security feature.

According to a further aspect of the present invention there is provided a method of distribution of digitized information comprising:

- 5 (a) storing partly at a local site and partly at a remote site customer-selectable digitized information such that an individual customer selection will include at least a portion of the information which is stored at the remote unit;
- (b) receiving at the local site a request from a customer for electronically-readable media containing customer-selected information;
- 10 (c) either before or after receipt of the request, authorising release of the customer-selected information and transmitting the said portion of the information from the remote site to the local site; and
- (d) at the local site, storing on the media the customer-selected information including the said portion.

15 According to yet a further aspect there is provided apparatus for the distribution of digitized information comprising:

- (a) a local mass store and a remote mass store, customer-selectable digitized information being stored partly on the local mass store and partly on the remote mass store, such that an individual customer-
20 selection will include at least a portion of the information which is stored on the remote mass store;
- (b) a point of sale unit for receiving a request from a customer for electronically-readable media containing customer-selected information;
- 25 (c) an information release authoriser arranged to authorise release of the customer-selected information to the customer, and including means for transmitting the said portion of the information from the remote

mass store; and

- (d) a local media generator arranged to store on the media the customer-selected information including the said transmitted portion.

5 An arrangement such as this, in which essential features of the customer-requested information (for example a software program) are stored remotely ensures that products cannot be generated using only locally stored information. This decreases the possibility of fraud, and ensures, if required, that only the publisher or the distributor (and not the reseller) is able to authorise the release of fully, working copies of the software.

10 Preferably the reseller may be permitted to offer the customer a trial or limited-validity version of the program, using information which is stored solely on the local mass storage device. The customer may therefore be able to take away, at nominal cost, a trial version of the software package without needing a separate authorisation from the publisher or distributor. If the
15 customer wants to purchase a full unrestricted licensed copy of the software, however, the reseller has to obtain authorisation electronically from the remote site, and to download the missing portions of the software from that site. At the same time, the remote site may issue a unique release code and transmit that to the local site, for incorporation into and/or onto the media.

20 The present invention also extends to an apparatus for the electronic distribution of digitised information comprising a local mass data store arranged to store a first digital information; a remote data store arranged to store a second digital information; a point of sale terminal arranged to receive a software media request; a software media generator arranged to generate the
25 software media; a certification printing device arranged to produce a certificate of authenticity; and an IALCC arranged to allocate a release code and/or a licence number.

Preferably, there is also included a packaging generator and an instruction manual generator.

Preferably a software media generator using the first digital information will, when executed, indicate that the second digital information has not been used. Alternatively, the second digital information preferably comprises an executable or data file that it is necessary to use in conjunction with the first digital information for generating a true copy of the software media. This security feature offers considerable advantages over prior art distribution methods involving electronic distribution by ensuring a true copy of the software media cannot be generated using only either the locally stored first digital information or the remotely stored second digital information.

The present invention also extends to an apparatus for the electronic distribution of digitised information comprising a mass data store arranged to store digitised information; a customer advice point arranged to receive a software media request; a point of sale terminal arranged to receive a software media request; a software media generator arranged to generate the software media using the digitised information; a certification printing device arranged to produce a certificate of authenticity; and an IALCC arranged to allocate a release code.

Preferably, there is also included a packaging generator and an instruction manual generator.

Preferably, the customer advice point includes a library of available software media and/or related information such as product promotions, product bundles, marketing information and related products; all of which may be browsed or searched.

Preferably, the customer can enter at the customer advice point a list of products such as a gift list, or a list compiled by an educational establishment

such as a school; which lists are then distributed to all or a selection of fulfilment units, at which the lists may be available for access by customers. Similar lists, supplied to all or some fulfilment units, may be provided by the central licensing/authorisation body, via the remote unit.

5 Preferably, the software media request includes a customer personalisation. Preferably, the customer personalisation is included in the software media and/or the licence number and/or on any or all of the software media, the packaging, the certificate of authenticity and the instruction manual. This degree of flexibility and personalisation is an important advantage over
10 prior art apparatus using which it is not generally possible for a customer to request a personalised product and have it both generated and supplied to them within minutes. Additionally, the customer advice point preferably uses information entered by the customer to make accessible information that is related to that customer-entered information.

15 Preferably, a software media request includes information identifying whether the request is for a student sale or an upgrade sale. The IALCC is preferably able to assess whether the student request is valid. Additionally, the IALCC will preferably assess the validation of a request for software media with an associated age limit.

20 The software media request may also include information relating to a customer club card. This offers the advantage of being able to monitor sales related to club card owners. The software media request preferably also includes customer credit card details. These details can be used to possibly further reduce the time between software media request and generation of the
25 software media request.

 Preferably, the customer advice point will generate printed information related to the software media request.

There is also provided according to the present invention an apparatus for the electronic distribution of digitised information comprising a mass data store for storing the digitised information; a point of sale terminal arranged to receive a software media request; a software media generator arranged to generate the software media using the digitised information, in which the software media comprises a longer than standard CD format; a certification printing device arranged to produce a certificate of authenticity; and a IALCC arranged to allocate a release code.

Preferably, there is also included a packaging generator and an instruction manual generator.

The use of software media comprising a longer than standard CD format (eg greater than 74 minutes) in which the final segments of storage are used offers the advantage that it will not be possible to copy the entirety of the digitised information onto a standard format CD.

There is also provided by the present invention a method for the electronic distribution of digitised information comprising storing digitised information on a mass data store; receiving a software media request; generating the software media using the digitised information; printing a certificate of authenticity for the software media; and allocating a release code to the software media.

Preferably, the method also includes printing packaging for the software media, and printing an instruction manual for the software media.

Preferably, the method also includes incorporating information comprising the software media request in the software media and/or in the licence number and/or on any or all of the software media, the packaging and the instruction manual. Preferably, the method further includes receiving a software media request from a customer advice point.

There is also provided by the present invention a method for the electronic distribution of digitised information comprising storing a first digitised information on a local mass data store; storing a second digital information on a remote mass data store; receiving a software media request; 5 generating the software media; printing a certificate of authenticity; and allocating a release code.

There is also provided a method for the electronic distribution of digitised information comprising storing digitised information on a mass data store; receiving a software media request; generating the software media using 10 the digitised information, in which the software media comprises a CD of longer than standard format upon which digitised media is stored at least on the final segments; printing a certificate of authenticity; and allocating a release code.

According to yet another aspect, there is provided a method of 15 distribution of digitized information comprising:

- (a) receiving a request from a customer for electronically-readable media containing customer-selected information;
- (b) storing the information on the media such that at least some of the information is stored on final storage segments of the media, with at 20 least some other storage segments being unused for storage of the information.

The present invention can be carried into practice in various ways. Specific embodiments will now be described by way of example with reference to the accompanying drawing, in which: 25

Figure 1 illustrates the components comprising the preferred electronic distribution apparatus.

The apparatus shown in Figure 1 comprises a media generation or fulfilment unit 14, typically located at a reseller's premises, and a remote central unit 16. The fulfilment unit 14 and the remote unit 16 are coupled by any convenient communications medium, such as ISDN, a standard telephone line, a private network etc. The connection may either be permanent or, more conveniently, may be achieved by way of a "dial-up" connection across the PSTN (Public Switched Telephone Network). In a practical embodiment, there will typically be a plurality of fulfilment units 14, each at an individual reseller's premises, coupled to a common remote unit 16. For the sake of simplicity, only a single fulfilment unit 14 is shown in the drawing.

In use, a customer at the reseller's premises, (or by phone, internet, fax or similar means) places an order for a specific product, for example for a computer program such as a game supplied on CD ROM. The fulfilment unit 14 generates the product and at least some elements of the packaging, there and then, under the general overall control of the remote unit 16.

The fulfilment unit includes an administration and production control unit (APCU) 2 which preferably consists of one or more networked computers in a secure location, and is responsible for the local control of the availability of products. Access to the APCU 2 is preferably additionally secured by a password or other security protection so that only a specified responsible person, such as a system administrator, can access the administrator functions either locally and/or remotely. The system administrator may be able to block or enable the production of individual products, assign users and administer their levels of access to certain fulfilment unit components and configure the operating environment of the local fulfilment unit 14. Alternatively, or in addition, this may be performed at an identification, administration and

licensing control centre (IALCC) 10. The IALCC 10 is usually situated within the remote unit 16, but may optionally be located either within the local fulfilment unit 14, or at the local fulfilment unit 14 in addition to the remote unit 16.

5 Within the fulfilment unit, the APCU 2 is coupled to a point of sale terminal 1, for taking orders, and to a customer advice point 3, at which a customer may be provided with information and/or demonstrations of individual software products. The APCU 2 is also coupled to a software media generator 5, for creating the physical media such as the CD, to a packaging
10 generator 6, to an instruction manual generator 7, and to a certification printing device 8. Also provided is a local mass data store 4 having a data input 9. The operation of these individual devices will be described in more detail below.

 The IALCC 10, at the remote site, consists of one or more computer systems and switchboards with an array of networking devices linked to a
15 communications medium that is capable of simultaneously handling multiple sessions with the individual local fulfilment units 14. The IALCC 10 can block or enable production of specific product demands, products, users or groups of users (such as resellers or customers) on a fulfilment unit basis, or globally. In addition, the IALCC 10 can cooperate with the individual fulfilment units so
20 that pre-release titles can be loaded before official product launch, with a pre-set release date so that they come on-line when the release date is reached. Optionally, the customer advice point may take orders for pre-release titles, and the fulfilment unit will generate these products automatically on or after the release date for supply to the customer. At on line production start up and
25 shutdown each day, the APCU 2 preferably communicates with the IALCC 10 via the communication medium 18. Typically, the APCU 2 will arrange to call the IALCC 10, the source of the call being verified by the IALCC using Caller

Line Number Identification, or any other appropriate form of party matching. The IALCC 10 verifies the location of the APCU 2 by reference to a database of fulfilment unit details, and registers the start or end of production. The IALCC 10 also receives a file from the APCU 2. The file from the APCU 2
5 details all user activity and every product request and generation. The file is compared and verified against a database held on the IALCC 10. Where the system runs on a 24 hour basis, the start-up and shut-down verifications need not necessarily coincide with a physical start-up and shut-down.

In one embodiment of the present invention, to initiate product
10 generation a user accesses the customer advice point 3 which preferably consists of one or more remote or locally networked computer terminals, kiosks, or electronic displays that give customers access to an interactive library of available products. The library preferably also has links to information on product requirements such as age limitation, necessary hardware platforms,
15 operating systems, required RAM, required disc storage space, and video display type. In addition, optional devices may be displayed such as a sound card, joystick, printer or modem. Rolling demonstrations and marketing information or other such digitised information can also preferably be viewed by a customer at a customer advice point. Further information about related
20 products such as user guides, cheat books, tee shirts and peripheral enhancements such as joysticks and control pads may also be accessible from the customer advice point. Further, it may be possible to access information relating to flexible product promotions in which a product is linked to a range of products on promotion. When such products are selected the system notifies
25 the customer of relevant promotions which may be taken up at purchase or within a specified number of days of purchase. Customer-selected compilations can also be provided.

The library can be searched on the basis of a number of parameters such as product name, publisher, key words, age limits, price, system requirements or combinations thereof. Examples of key words might be genre of products such as word processor, flight simulator, or the name of a main character in an adventure game. Alternatively, the customer can browse on the basis of, for example, hardware platform, operating system or application category. All searches, category browsing, products reviews and requests for purchases can optionally be recorded to an audit log. This audit log or relevant sections thereof can be passed on to the publisher, either electronically or otherwise.

The customer can optionally make a selection for purchase at the customer advice point 3. Typically, the customer advice point will print out a customer order label, for example incorporating a bar code. The customer then takes this to a nearby point of sale terminal 1, in order to purchase the product. The system may be programmed to retain the customer's intended order, for a predefined number of days, thereby allowing the customer to take the printed receipt away and return with it later. The actual purchase may then be effected rapidly, at the point of sale terminal 1, without the customer or the shop needing to spend time in identifying the particular product that was chosen possibly some days earlier. To that end, the point of sale terminal 1 may include a bar code reader capable of reading the bar code on the printed receipt. Access to the point of sale terminal 1 is optionally secured by a passcard or other such security protection so that access to the point of sales terminal 1 may only be gained by a specified responsible person.

The customer can, in a preferred embodiment, enter a personalised message to appear on the produced media itself, the packaging, the instruction manual and/or in a non-overwriteable form on the media itself. Further, products can be personalised with customer specific files including sound and

multimedia files such as start-up files with customer dedications, or files containing related products or promotions. The customer advice point 3 may be fitted with cameras or microphones so that customers can record visual and/or audio customised dedications for addition onto the surface of, or into the contents of the software media.

If the customer is a member of a club card scheme or wishes to enter credit card or payment information, the customer can preferably place an order including this information at the customer advice point. In such a case, a printed receipt will automatically be produced, and the customer's order will be released for processing on presentation of that receipt at the point of sale terminal 1. At that point, the customer does not need to wait for the credit card or club card to be validated/charged again. Alternatively, in another embodiment the customer may place an order directly at the customer advice point, pay by credit card or enter a clubcard, and have the product automatically generated without the need for further validation or release at a point of sale terminal.

In most embodiments, in order to obtain release of a pre-ordered product (either ordered at the customer advice point, or via the remote ordering facility), the customer proceeds to the point of sale terminal 1. Alternatively, if the customer is not sure of the exact product to be purchased, or needs help in locating it, the ordering and release of the product may be handled simultaneously at the point of sale unit, with the assistance of an appropriately trained operator. In a large store, there may be more than one point of sale terminal available; the customer may complete the purchase at any convenient terminal.

The customer can, in addition to products, preferably order demonstration products to take away and sample. Each of these demonstration

products can be registered so that the product promotions can be monitored and participating customers recorded for follow-up communications. Alternatively, demonstrations can in one embodiment be recorded onto the end of media containing an ordered product.

5 Student sales can preferably be authorised by the entry of a student number as part of the information required from the customer. The number may optionally be validated against valid student numbers or an algorithm thereof. Similarly, upgrade sales may also be authorised by the entry of a previous valid product licence number as part of the information required at the
10 customer advice point. Again, this number may optionally be validated against valid licence numbers or an algorithm thereof.

 In one preferred embodiment, if a customer attempts to order a product that has an age limit endorsement such as ELSPA, the authorisation and generation of the product will preferably only take place after the age of the
15 customer is checked by the operator at the point of sale terminal 1 (for example by checking against a birth certificate produced for inspection by the customer). The operator is required to confirm the age to the program before the sale may proceed.

 The customer advice point is optionally attached to a local and/or
20 networked printer to generate cards containing product information and a barcode; or alternatively a printed brochure. If a club card or credit card information was entered at the customer advice point, a printed receipt will be produced.

 As an alternative to using the customer advice point, a customer may
25 order a product by sending a fax, or by phoning the reseller. Alternatively, the customer may use a remote ordering facility 11. The remote ordering facility preferably comprises an Internet web and/or remote-based access site where

customers can place orders to be delivered by mail order, electronically or collected from a desired local fulfilment unit.

Once an order has been placed, the customer next proceeds to the point of sale terminal 1.

5 The point of sale terminal preferably consists of one or more networked computer terminals which have access to the same library of information and the same search and browse facilities as the customer advice point.

 The operator of the point of sale terminal preferably logs on to the terminal by supplying a password card or by another security method. If a
10 point of sale terminal is left unattended for a specified period of time, the terminal will time out to a login screen requiring a new login before production can be continued. Furthermore, after a specified number of sequential login attempts the point of sale terminal will preferably lock out subsequent logon attempts until cleared by a system administrator or by a communication from
15 the IALCC 10. Repeated system administration failure will lead to denial of further access until cleared from the IALCC 10. User rights can be set by the reseller or the system administrator either locally or remotely. Alternatively, access to the point of sale terminal can be unrestricted with access to generation and administration functions restricted by a security method.

20 A request to generate or "release" a product is made from the point of sale terminal 1. This can be initiated by the operator by reading in a bar code or information from a card or receipt produced by the customer advice point 3. Alternatively, the operator can initiate product generation by selecting through a search, by entering a title name, entering a reference number, or using an
25 alternative key. The individual fulfilment unit 14 and the operator are identified and validated by an automated, encrypted or unencrypted telephone call to the IALCC 10 optionally with call line number identification or another

party matching system enabled. If the customer has a specific request for a product not immediately available either locally or remotely, the product can be downloaded from the publisher or other electronic library to the IALCC 10, preferably encrypted, and uploaded with associated packaging instructions for generation at the fulfilment unit 14.

As an alternative to individual requests made from the point of sale terminal, the reseller can, in one embodiment, also initiate a request for batch processing of a title or titles. This may be particularly advantageous when, for example, the reseller anticipates high levels of demand for particular products on a particular day. Products to be processed by batch can be submitted to a batch queued during the day either remotely or locally, but products in the batch queue are not processed until after normal job production time or during off peak times. Operation hours and batch production times are preferably defined for each fulfilment unit. Products produced by batch in this way which cannot be registered to a customer on product generation, are preferably registered to a customer on sale.

A valid release code for the product is generated at the IALCC 10 and returned to the APCU 2. If the IALCC 10 is located within the local fulfilment unit, the IALCC 10 is preferably arranged to generate release codes, or a limited selection of release codes. The release code optionally includes or is related to a unique licence number which is preferably generated by means approved by the publisher and may, for example, be generated by the publisher's own algorithm, read from a list file of publisher-supplied licence numbers, or incremented serially. The licence number may sanction product release with or without additional security tags. Optionally, the licence number may be accompanied by customer information, such as a customer name. The licence number generated is verified by the IALCC 10 and entered onto the APCU 2.

In one embodiment of the present invention, the transaction is automatically recorded at the fulfilment unit's APCU 2 and also at the IALCC 10. The publisher may be notified of the transaction by a method and with a frequency of his choice, such as by email or fax as the orders are made.
5 Optionally, the product licence can be automatically registered with the publisher in conjunction with information relating to the customer.

The individual components of the products including inlay graphics, software, and instructions may be stored encrypted or unencrypted remotely in a remote mass data store 12 and/or locally in a local mass data store 4 preferably
10 located at a secure location within the reseller's premises. The local and remote mass data stores preferably consist of one or more expandable, external SCSI hard disc arrays that can be accessed from the APCU 2 or preferably from a networked server with one or a mixture of storage devices such as high capacity IDE discs or a RAID system. The remote mass data store preferably
15 stores, in particular, products not available locally which on request can be transferred to, for instance, a caching area of the local mass data store. In one embodiment these products will remain in the local mass data store until the cache is full and/or a new remote product takes its place. The remote mass data store is preferably stored next to the IALCC 10 at the remote site.

20 In one embodiment of the invention, data is uploaded to the local mass data store by the data input 9. The data input consists of one or more arrays of input devices comprising a media input such as a CD reader, DDS tape or fast communications link. The APCU 2 reads data from one or more of the local and/or remote data stores.

25 The raw materials including library cases (preferably with transparent external sleeves), blank CD-Rs, DVDs or other such media: paper or card to produce box graphic inlay sheets and instruction manuals; and special paper for

certificates of authenticity are kept at the fulfilment unit. Supplies of raw materials are preferably monitored and warnings issued to operators when supplies are running low. Production is paused or halted when supplies of raw materials are exhausted. If supplies are insufficient to complete a specific job, that job will continue to be held until supplies have been restored. The status of supplies at each fulfilment unit is monitored remotely at the IALCC 10 which automatically records and arranges deliveries of new stock.

The digital information is written to blank or partially blank media by the software media generator 5. Preferably, the media may be pre-coded with a code stored at either or both of the local fulfilment 14 and the remote unit 16. The code may be changed on each delivery of the media. Optionally, the code may be unique to each fulfilment unit 14, with the fulfilment unit 14 arranged to only accept specific coded media. The media is labelled and a graphic inlay sheet for packaging is printed by the packaging generator 6. The packaging generator preferably consists of one or more printing devices capable of printing on standard and non-standard paper sizes and may consist of a high quality laser printer. The instruction manual generator, 7 preferably consisting of one or more printing devices such as a high quality laser printer that is capable of printing double-sided on standard or non-standard paper, may be used to print an instruction manual or brochure. Preferably, a list of available related products and current promotions may also be printed. The certification printing device 8 may print out a certificate of authenticity. The certification printing device preferably consists of one or more printing devices capable of printing on standard or non-standard paper. The certificate of authenticity may also include information specific to the customer. It is the APCU 2 that controls the software media generator, the packaging generator, the instruction manual generator and the certification printing device. These devices are

preferably located locally, but may be located remotely in some embodiments..

The licence number of the product, including or excluding specific customer information, is optionally recorded within the media itself; and/or on one or more of the media, the packaging, the instruction manual, and the certificate of authenticity. A product code may be printed on all components for easy product compilation.

In one preferred embodiment, returns from customers can be checked by the IALCC 10 against a database of products sold by the licence number. The licence number is validated against all products sold at the relevant fulfilment unit and, if necessary, against all other fulfilment units through the IALCC 10. A customer can obtain a fresh media or any other component of the packaging on presentation of the original copy. The original component IS kept for destruction or return. It may also be possible to order updated compilations, such as back catalogues and periodicals, which are updated regularly. Customers can also choose a media containing the latest version of the product.

In one embodiment, an additional security feature for CD or DVD based products may be included. In one example, media of longer than standard format are used, for instance 80 minute CDs. The information copied onto the media make use of the final segments of storage space (ie the outermost tracks of the CD or DVD even if the remaining storage space is not fully utilised. This prevents the complete and necessary information being copied onto standard length media in the original configuration. This also saves product generation time as it is not necessary to completely fill media..

Another preferred feature provides an additional security measure. Preferably, the majority of digitised information and instructions is stored locally, while another part is stored remotely. Without these remotely stored components, the digitised information cannot be correctly generated. The

components stored locally without the remotely stored part give rise to a message describing that the product is not authorised with, for instance, the graphic on the media displaying a "not valid" message. Alternatively, the message may be recorded to the media so that the message is displayed when the media is accessed. The remote component is delivered to the software media generation unit from the LALCC 10 or elsewhere during the authorisation procedure. Receipt of the component that was missing will overwrite the messages. Another possibility is that all the information is stored locally except a small executable so that the product will not function before the executable is added to the local mass data store during the authorisation procedure.

In a preferred embodiment, the local fulfilment unit 14 may read the electronic licence number embedded within the CD (or other medium) being produced. It verifies this against the licence numbers of products sold both locally and optionally in other stores, through the remote unit 16. Along with other product information, the local fulfilment unit 14 then sends to the remote unit 16 details of the association between a different licence number and the corresponding electronic licence number which is embedded on the physical medium.

Once the product has been validated, the local fulfilment unit 14 may then provide a "return" option for the product. If a customer returns the CD or other media to the local store, it may then be placed back within the media generator 5, and the appropriate "return" option selected. On selection of this option, the media generator then electronically invalidates the product by writing invalid information to it, preventing it from subsequently being used. The local fulfilment unit 14 then reports a successful return to the remote unit 16 and, in appropriate circumstances, the purchase price of the product may be

refunded to the customer. This process obviates the needs for physically transporting returns back to the publisher, or indeed to any central location.

CLAIMS:

1. A method of distribution of digitized information comprising:
 - 5 (a) receiving at a local site a request from a customer for electronically-readable media containing customer-selected information;
 - (b) either before or after receipt of the request, obtaining a unique release code electronically from a remote site;
 - (c) associating the release code with the customer; and
 - 10 (d) at the local site, storing on the media the customer-selected information, along with the release code, for supply to the customer.
- 15 2. A method as claimed in claim 1 in which the media includes packaging; the release code includes a licence number; and in which the licence number is printed onto the packaging.
3. A method as claimed in claim 2 in which the customer's name is printed onto the packaging.
- 20 4. A method as claimed in any one of the preceding claims in which the release code is electronically stored on the media along with the customer-selected information.
- 25 5. A method as claimed in claim 4 in which information representative of the customer is electronically stored on the media.
6. A method as claimed in any one of the preceding claims in which the media is a CD or a DVD; the release code includes a licence number; and in

which the licence number is printed onto the surface of the CD or DVD.

7. A method as claimed in claim 6 in which the customer's name is printed onto the surface of the CD.

5

8. A method as claimed in any preceding claim including producing a certificate of authenticity at the local site containing the release code.

10

9. A method as claimed in claim 8 including adding the customer's name to the certificate of authenticity.

15

10. A method as claimed in claim 1 including receiving from the customer at the local site a user-defined media personalisation, and adding the personalisation to the media.

11. A method as claimed in claim 10 in which the media includes packaging, and in which the personalisation is printed onto the packaging.

20

12. A method as claimed in claim 10 and claim 11 in which the personalisation is electronically stored on the media along with the customer-selected information.

25

13. A method as claimed in any one of the preceding claims in which the release code is issued at the remote site and is sent electronically to the local site on receipt of the customer request.

14. A method as claimed in any one of the preceding claims further including

storing at the local site a plurality of customer requests, receiving at the remote site the plurality of customer requests; and issuing from the remote site and sending to the local site a plurality of release codes in response to the plurality of customer requests.

5

15. A method as claimed in any one of claims 1 to 12 in which a plurality of release codes is issued at the remote site and transmitted electronically in advance to the local site, one of said release codes being associated with the customer on receipt of the customer request.

10

16. A method as claimed in any one of claims 1 to 12 including keeping a cumulative record at the local site of all supplied media and associated release codes, and forwarding the record electronically to the remote site.

15

17. A method as claimed in any one of claims 1 to 12 in which the customer request is made by a customer physically present at the local site.

20

18. A method as claimed in any one of claims 1 to 16 in which the customer request is made by a customer not physically present at the local site, via a communications medium, with the media being prepared at the local site for later collection by or delivery to the customer.

25

19. A method as claimed in any one of the preceding claims further including receiving a request from the customer for a student sale, the request including a student number; validating the student number with reference to a representation of valid student numbers; and authorising the student sale depending upon the validation.

20. A method as claimed in any one of the preceding claims further including receiving a request from the customer for an upgrade sale, the request including a previous licence number; validating the previous licence number with reference to a representation of valid previous licence numbers; and
5 authorising the upgrade sale depending upon the validation.

21. A method as claimed in any one of the preceding claims further including storing at the local and/or remote site a code; and precoding the media with the code before storage of the customer selected information.
10

22. A method as claimed in claim 21 in which the code is unique to the fulfilment unit.

23. A method as claimed in any one of the preceding claims further including receiving from the customer a request including a user-defined selection of products; and storing at the local site the request for user-defined selection of products for access by the customer.
15

24. A method as claimed in claim 22, in which the user-defined selection of products comprises a gift list.
20

25. A method as claimed in claim 22, in which the user-defined selection of products comprises a list compiled by an educational establishment.

25 26. Apparatus for the distribution of digitized information comprising:
(a) a local mass store for storing the digitized information;
(b) a point of sale unit arranged to receive a request from a customer for

electronically-readable media containing customer-selected information;

(c) a remote licensing control centre arranged to issue a unique release code electronically; and

5 (d) a local media generator arranged to store on the media the customer-selected information, along with the issued release code for supply to the customer.

27. Apparatus as claimed in claim 26 in which the release code includes a
10 licence number; and in which there is further included a packaging generator arranged to print the licence number or the customer's name, or both onto media packaging.

28. Apparatus as claimed in claim 26 or claim 27 in which the release code
15 includes a licence number; and in which there is further included a certificate of authenticity generator arranged to generate a certificate of authenticity including the licence number or the customer's name, or both

29. Apparatus as claimed in any one of claims 26 to 28 in which the media
20 generator is arranged to include user-defined personalisation on the surface of the media, or within the digitized information stored on the media.

30. Apparatus as claimed in any one of claims 26 to 29 in which the media
generator includes a CD or DVD writer.

25

31. Apparatus as claimed in claim 30 in which the release code includes a licence number, and in which the media generator includes a printer arranged to

print onto a surface of a CD the licence number or the customer's name.

32. A method of distribution of digitized information comprising;

5 (a) storing partly at a local site and partly at a remote site customer-selectable digitized information such that an individual customer selection will include at least a portion of the information which is stored at the remote site;

10 (b) receiving at the local site a request from a customer for electronically-readable media containing customer-selected information;

(c) either before or after receipt of the request, authorising release of the customer-selected information and transmitting the said portion of the information from the remote site to the local site; and

15 (d) at the local site storing on the media the customer-selected information including the said portion.

33. A method as claimed in claim 32 in which the customer-selected information will, when read or used without the said portion, indicate to a user that the said portion has been omitted.

20 34. A method as claimed in claim 33 in which the customer-selected information comprises a data file, and in which the said portion comprises a portion of that data file.

25 35. A method as claimed in claim 34 in which the customer-selected information comprises a computer program and in which the said portion comprises a portion of that program without which the program will not run

either at all or as expected.

36. A method as claimed in claim 35 in which the said portion is an executable of the program.

5

37. A method as claimed in claim 35 in which the said portion is a graphic of the program.

10

38. A method as claimed in claim 35 in which, without the said portion, the program executes with a graphic which indicates that the program is not approved.

15

39. A method as claimed in claim 38 in which the said portion is a graphic which, in use, overwrites the graphic which indicates that the program is not approved.

20

40. Apparatus for the distribution of digitized information comprising:
(a) a local mass store and a remote mass store. customer-selectable digitized information being stored partly on the local mass store and partly on the remote mass store, such that an individual customer-selection will include at least a portion of the information which is stored on the remote mass store;

25

(b) a point of sale unit for receiving a request from a customer for electronically-readable media containing customer-selected information;
(c) an information release authoriser arranged to authorise release of the customer-selected information to the customer. and including means

for transmitting the said portion of the information from the remote mass store; and

- (d) a local media generator arranged to store on the media the customer-selected information including the said transmitted portion.

5

41. A method of distribution of digitized information comprising;
- (a) receiving a request from a customer for electronically-readable media containing customer-selected information; and
- (b) storing the information on the media such that at least some of the information is stored on final storage segments of the media, with at least some other storage segments being unused for storage of the information.

10

15

42. A method as claimed in claim 41 in which the final storage segments comprise outer storage tracks of the media.

43. A method as claimed in claim 41 in which the information is stored on a media of greater than standard length.

20

44. A method as claimed in claim 41 in which the media is a CD or a DVD.

45. A method of distribution of digitized information substantially as specifically described, with reference to the drawing.

25

46. Apparatus for the distribution of digitized information substantially as specifically described, with reference to the drawing.

47. A method of processing returns of physical media from customers, the physical media storing customer-selected information, the method comprising:

- (a) accepting at a local site a returned media from a customer;
- (b) reading from the returned media an electronic licence code which is stored upon it;
- (c) reporting the licence code to a central site; and
- (d) electronically invalidating the returned media at the local site.

48. A method as claimed in claim 47 in which the licence code is checked for validity before the return is authorised.

49. A method as claimed in claim 47 in which the licence code is checked to ensure that a media having such a code has not previously been accepted for return before the return is authorised.

1 / 1

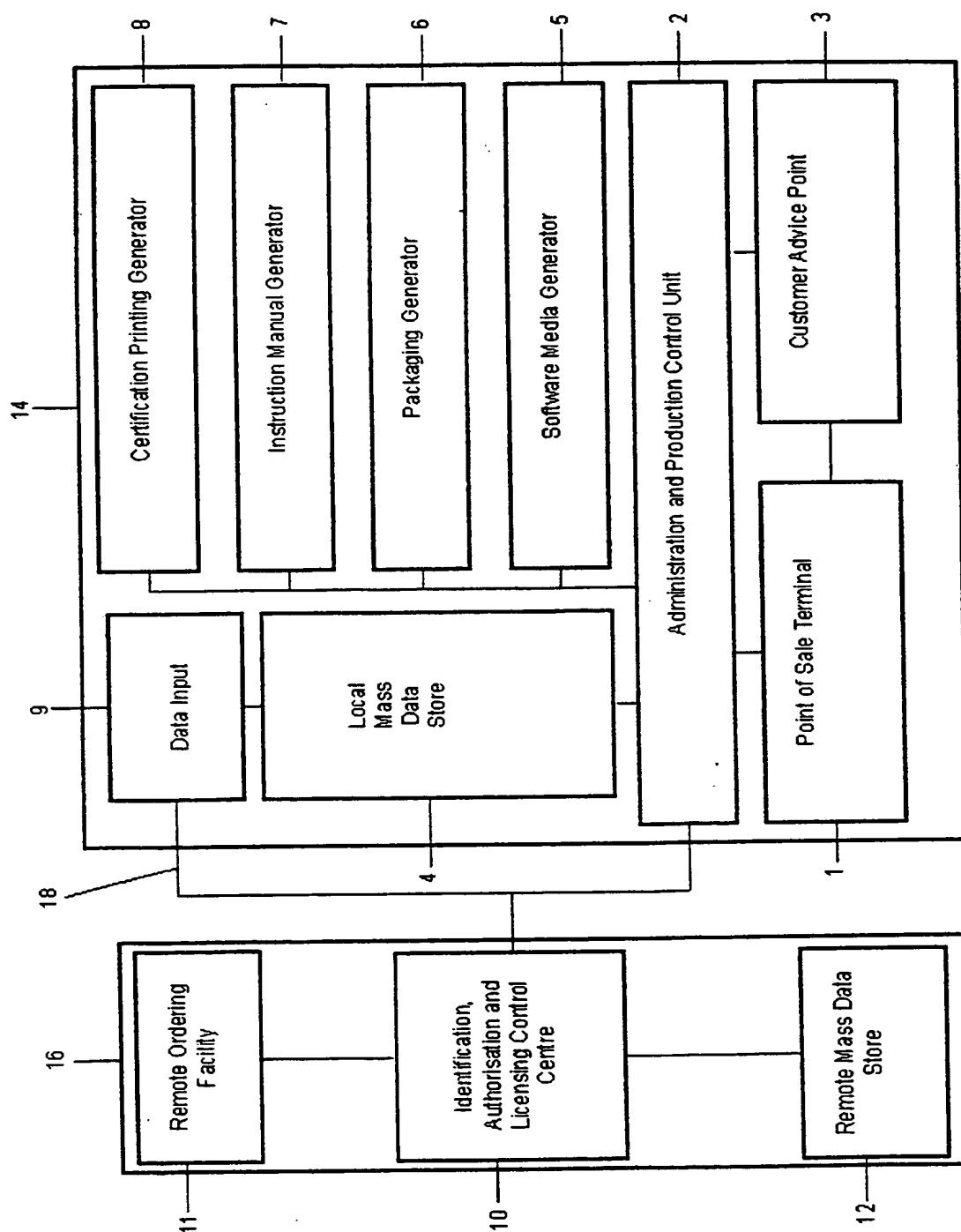


FIGURE 1

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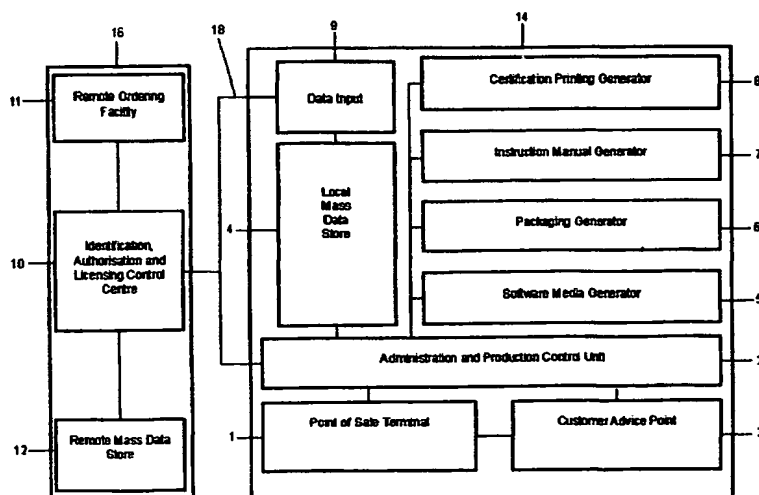
(88) Date of publication of the international search report:
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(72) Inventor; and

(75) Inventor/Applicant (for US only): **DOLL-STEINBERG, Daniel** [GB/GB]; 126/134 Baker Street, London W1U 6UE (GB).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR THE DISTRIBUTION OF DIGITISED INFORMATION ON DEMAND



(57) Abstract: In a method and apparatus for the electronic distribution of digitised information on demand, remote and/or local mass data stores are used to store digitised information for use in the generation of products such as software media. Available products and related information can be searched, browsed and requested at a local fulfilment unit; or requests can be made remotely. The products generated and associated packaging, certificates of authenticity, instruction manuals and licence numbers may optionally include customer specific information, and customer given personalisation. Additional security features include storing essential parts of the digitised information remotely so that products can not be generated using only locally stored information; and recording the digitised information on the at least final segments of longer than standard format CDs preventing complete copies onto CDs of standard format.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 99/04318

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/60 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, IBM-TDB, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A A	WO 98 16033 A (PROTOCOL TECHNOLOGIES INC) 16 April 1998 (1998-04-16) column 1, line 20 -column 12, line 54 --- EP 0 561 685 A (FUJITSU LTD) 22 September 1993 (1993-09-22) column 1, line 34 -column 2, line 50 column 3, line 51 -column 4, line 1 ---	1-31 1-31
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A	WO 98 02820 A (BITSOURCE INC) 22 January 1998 (1998-01-22) cited in the application column 2, line 1 - line 14 --- -/-	1-31

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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- *G* document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 99/04318

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 754 646 A (WILLIAMS THOMAS H ET AL) 19 May 1998 (1998-05-19) column 3, line 45 -column 4, line 30 column 7, line 37 - line 42 ----	32-40
P,X	US 5 999 622 A (KUROSAWA TAKASHI ET AL) 7 December 1999 (1999-12-07) figure 2 figure 8 ----	32-40
A	----- WO 97 15051 A (KAMATAKIS JOHN ;SKALKOS PETROS (GR); KAMATAKIS NIKOLAOS (GR); MLS) 24 April 1997 (1997-04-24) claims 1-5 ----	41-44
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X	----- ANONYMOUS: "Invalidation of Credit Cards" IBM TECHNICAL DISCLOSURE BULLETIN, vol. 24, no. 7B, December 1981 (1981-12), XP000955393 New York, US page 3885 ----	47-49
A	----- US 5 816 917 A (KELMER AARON ET AL) 6 October 1998 (1998-10-06) abstract -----	47-49

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 99/04318

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-31

Method and apparatus for distributing digitised information, wherein a release code is stored on a medium along with the digitised information.

2. Claims: 32-40

Method and apparatus for distributing digitised information, wherein the digitised information is being stored partly at a local site and partly at a remote site.

3. Claims: 41-44

Method of distributing digitised information, wherein the digitised information is stored on the final storage segments of the medium.

4. Claims: 47-49

Method of processing returns of physical media.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

GB 99/04318

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